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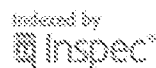
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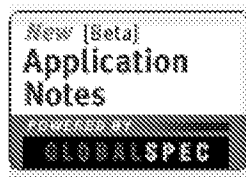
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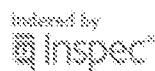
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1. Performance of UWB-IR with polarity randomization and interleaved cod multipath fading channels
 Pietrzyk, M.M.; Weber, J.H.;
[Vehicular Technology Conference, 2005. VTC 2005-Spring, 2005 IEEE 61st](#)
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Giannakis, Georgios B. / Yang, Liuqing, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2004

patno:US20040240527

...to different frames are interleaved. Transmitters 12 output a UWB transmission signal from the stream of chips. [0044] The stream...white Gaussian noise (AWGN). [0046]

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Inventor Information for 10/796895

Inventor Name	City	State/Country
GIANNAKIS, GEORGIOS B.	MINNETONKA	MINNESOTA
YANG, LIUQING	FALCON HEIGHTS	MINNESOTA

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First Name = GEORGIOS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60274365	Not Issued	159	03/08/2001	Chip-interleaved block-spread code division multiple access	GIANNAKIS, GEORGIOS
60274367	Not Issued	159	03/08/2001	Finite-alphabet based channel estimation for OFDM and related multi-carrier systems	GIANNAKIS, GEORGIOS
60906989	Not Issued	20	03/14/2007	Stochastic routing in wireless multihop networks	GIANNAKIS, GEORGIOS
09838621	6912241	150	04/19/2001	CHIP-INTERLEAVED, BLOCK-SPREAD MULTI-USER COMMUNICATION	GIANNAKIS, GEORGIOS B.
10094946	7139321	150	03/07/2002	CHANNEL ESTIMATION FOR WIRELESS OFDM SYSTEMS	GIANNAKIS, GEORGIOS B.
10158390	7190734	150	05/28/2002	SPACE-TIME CODED TRANSMISSIONS WITHIN A WIRELESS COMMUNICATION NETWORK	GIANNAKIS, GEORGIOS B.
10420351	Not Issued	30	04/21/2003	Space-time coding using estimated channel information	GIANNAKIS, GEORGIOS B.
10420352	7224744	150	04/21/2003	SPACE-TIME MULTIPATH CODING SCHEMES FOR WIRELESS COMMUNICATION SYSTEMS	GIANNAKIS, GEORGIOS B.
10420353	7292647	150	04/21/2003	WIRELESS COMMUNICATION SYSTEM HAVING LINEAR ENCODER	GIANNAKIS, GEORGIOS B.
10420361	7251768	150	04/21/2003	WIRELESS COMMUNICATION SYSTEM HAVING ERROR-CONTROL CODER AND LINEAR PRECODER	GIANNAKIS, GEORGIOS B.
10421678	7280604	150	04/21/2003	SPACE-TIME DOPPLER CODING SCHEMES FOR TIME-SELECTIVE WIRELESS COMMUNICATION CHANNELS	GIANNAKIS, GEORGIOS B.
10796563	7340009	150	03/08/2004	SPACE-TIME CODING FOR	GIANNAKIS,

				MULTI-ANTENNA ULTRA-WIDEBAND TRANSMISSIONS	GEORGIOS B.
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10953493	Not Issued	30	09/29/2004	Digital carrier multi-band user codes for ultra-wideband multiple access	GIANNAKIS, GEORGIOS B.
10955336	Not Issued	30	09/30/2004	Full-diversity, full-rate complex-field space-time coding for wireless communication	GIANNAKIS, GEORGIOS B.
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11242623	Not Issued	30	10/03/2005	Noncoherent ultra-wideband (UWB) demodulation	GIANNAKIS, GEORGIOS B.
11243454	Not Issued	30	10/04/2005	Blind synchronization and demodulation	GIANNAKIS, GEORGIOS B.
11682664	Not Issued	30	03/06/2007	SPACE-TIME CODED TRANSMISSIONS WITHIN A WIRELESS COMMUNICATION NETWORK	GIANNAKIS, GEORGIOS B.
60220899	Not Issued	159	07/25/2000	Methods and apparatus for crosstalk cancellation in DSL modems	GIANNAKIS, GEORGIOS B.
60293476	Not	159	05/25/2001	Space-time coded transmission	GIANNAKIS,

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60374886	Not Issued	159	04/22/2002	Transceiver designs combining complex-field coding with galois-field coding and low-complexity turbo-decoding for wireless fading communication channels	GIANNAKIS, GEORGIOS B.
60374933	Not Issued	159	04/22/2002	Optimal transmitter eigen-beamforming and space time block coding based on partial channel state information	GIANNAKIS, GEORGIOS B.
60374934	Not Issued	159	04/22/2002	Space-time-multipath coding using digital phase sweeping and block circular delay diversity for wireless transmissions over frequency-selective fading channels	GIANNAKIS, GEORGIOS B.
60374935	Not Issued	159	04/22/2002	Linear constellation precoding for fading communication channels	GIANNAKIS, GEORGIOS B.
60374981	Not Issued	159	04/22/2002	Space-time-doppler coding for wireless and mobile communications over time-selective and doubly-selective fading channels	GIANNAKIS, GEORGIOS B.
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60507829	Not Issued	159	10/01/2003	Full-diversity full-rate complex-field space-time coding	GIANNAKIS, GEORGIOS B.
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60615489	Not Issued	159	10/01/2004	Noncoherent ultra-wideband radios	GIANNAKIS, GEORGIOS B.
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First Name = LIUQING

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10796563	7340009	150	03/08/2004	SPACE-TIME CODING FOR MULTI-ANTENNA ULTRA-WIDEBAND TRANSMISSIONS	YANG, LIUQING
10796567	Not Issued	95	03/08/2004	TIMING SYNCHRONIZATION USING DIRTY TEMPLATES IN ULTRA WIDEBAND (UWB) COMMUNICATIONS	YANG, LIUQING
10796570	Not Issued	61	03/08/2004	Pilot waveform assisted modulation for ultra-wideband communications	YANG, LIUQING
10796895	Not Issued	41	03/08/2004	Multi-user interference resilient ultra wideband (UWB) communication	YANG, LIUQING
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60453809	Not Issued	159	03/08/2003	Multi-user interference resilient algorithms for ultra-wideband multiple access through multipath channels	YANG, LIUQING
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10796895, filed 03/08/2004

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Effective Date: 03/08/2004

Class/Subclass:

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Application Received: 03/10/2004

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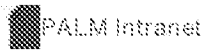
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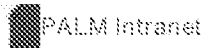
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WIDS	2008-02-14	40	Y <input checked="" type="checkbox"/>	2008-02-15 17:11:37.0	jtorres1
WIDS	2005-03-24	21	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
WIDS	2004-09-27	13	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884

Update



Application
Number

IDS Flag Clearance for Application 10796895

**IDS
Information**

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
WIDS	2008-02-14	44	Y <input checked="" type="checkbox"/>	2008-03-31 17:50:44.0	jtorres1
WIDS	2005-03-24	21	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
WIDS	2004-09-27	13	Y <input checked="" type="checkbox"/>	2007-05-09 00:00:00.0	CR #232884
<input type="button" value="Update"/>					